

Title (en)
PERFLUORONATED CYCLE-CONTAINING TERTIARY AMINES USED AS A BASIS FOR GAS-CONVEYING EMULSIONS AND DEVICE FOR THE PRODUCTION THEREOF

Title (de)
TERTIÄRE AMINE MIT PERFLUORIERTEM RING ALS BASIS FÜR GASTRANSPORTIERENDE EMULSIONEN UND VORRICHTUNG ZU DEREN HERSTELLUNG

Title (fr)
AMINES TERTIAIRES PERFLUOREES CONTENANT DES NOYAUX, UTILISEES COMME EMULSIONS DE TRANSPORT DE GAZ ET PROCEDES DE FABRICATION CORRESPONDANTS

Publication
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Application
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Priority
RU 0000547 W 20001229

Abstract (en)
[origin: EP1354868A1] Tertiary perfluorocycloamines (TPFCAs) of general formula (1) <CHEM> where n = 1 or 2, m = 2 or 3, X is <CHEM> or <CHEM> wherein at n = 2 X is <CHEM> as the basis for gas transport emulsions. <??>TPFCAs comprise a group of compounds which are close in their physicochemical properties to perfluoro-N-(4-methylcyclohexyl)-piperidine, particularly in the critical temperature of dissolution in hexane, and which are used in a mixture, forming a number of compounds with gradually varying characteristics. Owing to this, a greater homogeneity of the fluorocarbon phase is achievable in the emulsions and it becomes possible to enhance the stability of the emulsion particles stabilized by an ethylene oxide-propylene oxide block copolymer, with the absence of toxicity for large animals. A mixture of TPFCAs is prepared by electrochemical fluorination of n-piperidinoheptafluorotoluene in anhydrous hydrogen fluoride. The use of this mixture of TPFCAs instead of individual perfluoro-N-(4-methylcyclohexyl) piperidine simplifies, speeds up the process for preparing perfluorinated organic compounds, makes it cheaper, and provides conditions for broader application of gas transport emulsions based thereon.

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Citation (search report)

- [X] US 4534978 A 19850813 - YOKOYAMA KAZUMASA [JP], et al
- [E] WO 0234297 A2 20020502 - VISYS AG [DE], et al
- See references of WO 02053525A1

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